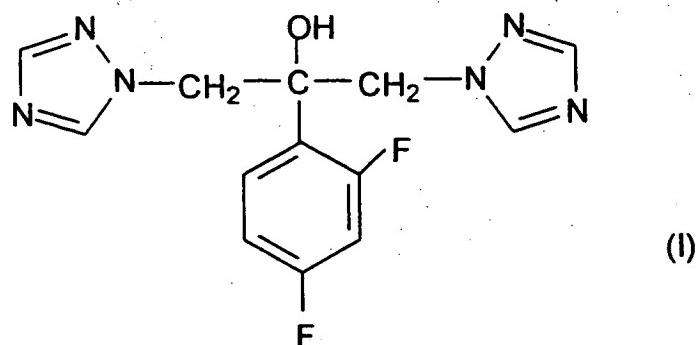


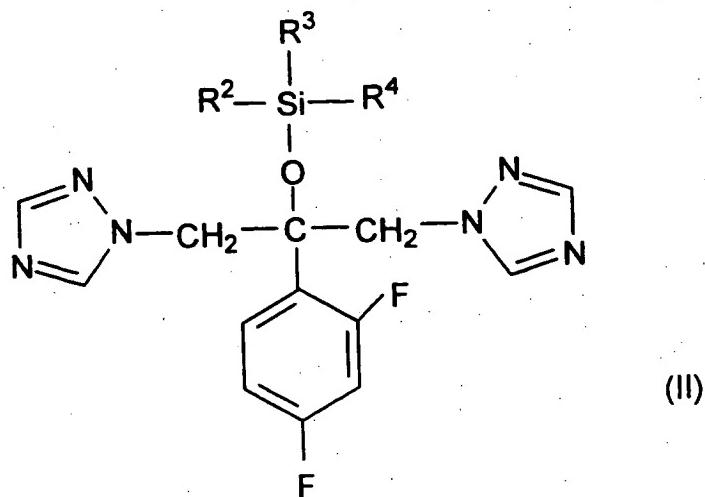
CLAIM AMENDMENTS

- 1 1. (Previously presented) A process for the synthesis of
2 monohydrate and crystal modifications of fluconazole of formula (I)



- 4 comprising the steps of:

- 5 a.) hydrolyzing a silyl ether derivative of formula (II)



7 - wherein the meaning of R² is hydrogen, or a C₁-C₁₀ alkyl or phenyl
8 group, R³ and R⁴ independently of each other are a C₁-C₁₀ alkyl or
9 phenyl group - at a pH preferably either below 3 or above 8 in an
10 aqueous solution,

11 then cooling the obtained reaction mixture containing the
12 fluconazole of formula (I) and isolating the precipitated fluconazole
13 monohydrate and optionally

14 dissolving the fluconazole monohydrate obtained from the
15 hydrolysis of silyl-fluconazole in a C₁-C₄ straight or branched chain
16 alcohol at boiling temperature and cooling the solution with a speed
17 of 5-15 °C/h to obtain the crystal modification II of fluconazole, or

18 b.) dissolving anhydrous fluconazole or monohydrate of it in a
19 C₁-C₄ straight or branched chain alcohol at boiling temperature and
20 cooling the solution with a speed of 5-15 °C/h to obtain the crystal
21 modification II of fluconazole, or

22 c.) drying slowly fluconazole monohydrate after seeding
23 preferably with seeding crystals of crystal modification II at 30-70
24 °C, preferably in vacuum to obtain the crystal modification II of
25 fluconazole, or

26 d.) drying fast fluconazole monohydrate after seeding preferably
27 with seeding crystals of crystal modification I at 80 °C, to obtain
28 the crystal modification I of fluconazole.

1 2. (Previously presented) The process according to claim
2 1, characterized by carrying out the hydrolysis of silyl ether
3 derivatives of formula (II) - wherein the meaning of R², R³ and R⁴
4 is as defined in claim 1 - in aqueous methanolic solution in the
5 presence of sodium hydroxide.

1 3. (Previously presented) The process according to claim
2 1, characterized by carrying out the hydrolysis of silyl ether
3 derivatives of formula (II) - wherein the meaning of R², R³ and R⁴
4 is as defined in claim 1 - in aqueous sodium hydroxide solution.

1 4. (Previously presented) The process according to claim
2 1, characterized by using a silyl ether
3 derivative of formula (II), wherein R², R³ and R⁴ are methyl groups,
4 as starting material.

1 5. (Previously presented) The process according to claim
2 1 for the synthesis of crystal modification II of fluconazole,
3 characterized by cooling the solution of
4 anhydrous fluconazole or monohydrate of it in isopropanol obtained
5 at boiling temperature with a speed of 10 °C/h.

1 6. (Previously presented) The process according to claim
2 1 for the synthesis of crystal modification II of fluconazole,
3 characterized by cooling the solution of
4 anhydrous fluconazole or monohydrate of it in ethanol obtained at
5 boiling temperature with a speed of 10 °C/h.

1 7. (Previously presented) The process according to claim
2 1 for the synthesis of crystal modification II of fluconazole,
3 characterized by cooling the solution of
4 anhydrous fluconazole or monohydrate of it in sec-butanol obtained
5 at boiling temperature with a speed of 10 °C/h.

1 8. (Previously presented) The process according to claim
2 5 characterized by cooling the solutions to 0 °C.

1 9. (Previously presented) The process according to claim
2 1 for the synthesis of crystal modification II of fluconazole,
3 characterized by drying the fluconazole
4 monohydrate in the presence of seeding crystals of crystal
5 modification II with stirring, in vacuum at 40 °C for 2 h, then at
6 70 °C for 4 h.

1 10. (Previously presented) The process according to claim
2 1 for the synthesis of crystal modification I of fluconazole,
3 characterized by drying the fluconazole
4 monohydrate in the presence of seeding crystals of crystal
5 modification I with stirring, in vacuum at 80 °C for 4 h until the
6 weight is constant.

1 11. (New) Fluconazole monohydrate having a melting point
2 of 139° to 140° C prepared by the process defined in claim 1.